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- 54 [Title of the Device] Energy Supply System 57 [Abstract]

[Object]

To provide an energy supply system that can supply an energy load with energy even if some of energy supply means halt, thereby achieving efficient energy supply.

[Constitution]

Energy supply means la to le supply energy consumption areas la to ld with energy. Control means 3a to 3e control the operating conditions of the energy supply means la to le respectively so that the energy supply means la to le may supply the energy consumption areas la to ld respectively with energy that is demanded thereby. The energy supply means la to le each supply and/or receive energy to and/or from other energy supply means. In the event that one of the control means 3a to 3e for the respective energy supply means la to le suffers a breakdown, another controls the operating conditions of one of the energy supply means la to le that is to be controlled by the one of the control means that suffers the breakdown.

- 1a, 1b, 1c, 1d: energy consumption areas (energy loads)
- 2a, 2b, 2c, 2d, 2e: energy supply means
- 3a, 3b, 3c, 3d, 3e: control means
- 4: commercial power
- 5a, 5b, 5c, 5d: supply gas sources
- 6a, 6b, 6c, 6d: heat exchangers
- 7: cooperative power line
- 8: cooperative thermal supply line
- 9: cooperative communication line
- 10: power supply line

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[0014]

Symbol N, i.e., environmental contaminants are exemplified by CO_2 , NO_x and SO_x . Assuming that W_1 , W_2 , and W_3 are weighting factors, the environmental contaminants can be evaluated by: $N = W_1(CO_2) + W_2(NO_x) + W_3(SO_x)$. In particular, when attention is focused on only CO_2 , $W_1 = 1$, $W_2 = 0$, $W_3 = 0$; when focused on only NO_x , $W_1 = 0$, $W_2 = 1$, $W_3 = 0$; and when focused on only SO_x , $W_1 = 0$, $W_2 = 0$, $W_3 = 1$. An environmental contaminant targeted for evaluation can arbitrarily be determined depending on conditions.